

**AMENDMENTS TO THE SPECIFICATION**

**Please replace paragraph 12 with the following paragraph:**

The above referenced needs are satisfied by an implantable device for automatically monitoring and reporting patient physical activity. The implantable device is comprised of at least one sensor ("the sensor") providing information related to patient movement, a processor in communication with the sensor wherein the processor evaluates the information provided by the sensor, automatically determines when the sensor is indicating patient movement in excess of a threshold value, and automatically determines a maximum equivalent quantified activity during a determined interval, memory in communication with the ~~sensor~~ sensor so as to receive and store data related to the patient's movement, and a telemetry circuit in communication with the memory such that the device can selectively report stored data related to the patient's activity by telemetrically transmitting such data.

**Please replace paragraph 82 with the following paragraph:**

**Fig. [[7]] 8** illustrates an alternative embodiment of the invention adapted for applications where the sensor 108 comprises a direct position sensor, for example a global positioning system (GPS) receiver. In this embodiment, the sensor 108 directly provides position and distance information and thus the calculation of distance from the acceleration signal as previously described for the embodiments of the invention with respect to **Figs. 4-6** is not necessary.

**Please replace paragraph 85 with the following paragraph:**

It is to be understood that the embodiment of the invention described with respect to **Fig. [[7]] 8** is similar to the embodiments described with respect to **Figs. 4 and 5** in that the invention can provide for monitoring and recordation in state 516 of multiple consecutive non-overlapping determined periods, in this embodiment six minutes, in circumstances where patient activity is on-going for multiple six-minute intervals. However, it is to be understood that the aspects of the invention described with respect to **Fig. 6**, e.g., the rolling determination of a determined interval, can also be employed in embodiments where the sensor 108 provides direct position information such as via a GPS receiver, for example.

**Please replace paragraph 87 with the following paragraph:**

**Fig. [[8a]] 9a** is a flow chart of another embodiment of a method 600 of determining patient activity wherein a total distance traveled is inferred from an indicator of patient activity. **Fig. [[8b]] 9b** is a waveform indicating a signal provided by the sensor 108 that can be utilized in the determination shown in **Fig. [[8a]] 9a**. The signal from the sensor 108 illustrated in **Fig. [[8b]] 9b** can comprise a simple total acceleration signal that need not be resolved into separate axes. The waveform shown in **Fig. [[8b]] 9b** indicates a cyclic movement of the patient, such as walking, as indicated by the amplitude of the signal provided by the sensor 108 over time. The waveform shown in **Fig. [[8b]] 9b** shows five instances of a rising edge of the sensor 108 signal exceeding a sensor signal threshold. These instances of threshold crossing can be used by the device 10 to establish a count of events indicating patient movement in excess of the threshold.

**Please replace paragraph 88 with the following paragraph:**

**Fig. [[8b]] 9b** also indicates a relative timing between the threshold crossing events and also, as indicated in the figure, a time lapse between sensor signal peaks. This time period can be used to determine a rate. The rate and count information may be used individually or in combination to quantify patient activity. For example, a clinical evaluation may be made to determine a distanced walked by the patient in each step and this distance can be multiplied by the event count to approximate a total distance walked during a period of evaluation. The rate information can also be used in a similar manner wherein a walking step rate is correlated to a walking speed, such as in a clinical test. The determined stepping rate can then be multiplied by the corresponding walking speed and by the duration of detected activity to approximate a total distance walked.

**Please replace paragraph 89 with the following paragraph:**

The aspects of the invention illustrated in **Fig. [[8b]] 9b** begin in a start state 602 proceeding to a decision state 604 where a determination is made whether patient activity exceeds a determined threshold. As previously described, the evaluation of state 604 can comprise evaluating whether the sensor 108 signal exceeds a threshold amplitude and/or indicates activity occurring above a determined rate/within a determined period. A negative result of the decision of state 604 results in continued monitoring for onset of patient activity and a positive result of state 604 leads to an evaluation state 606.

**Please replace paragraph 92 with the following paragraph:**

Following the calculation of state 612, the results of the calculation are stored in memory of the device 10 in a recordation state 614. **Fig. [[8c]] 9c** shows an embodiment of sample records that can be made in state 614. In the embodiment shown in **Fig. [[8c,]] 9c**, a record is made of the month/day/year of each determination, a value for the maximum step count observed for the determined period, and an equivalent distance traveled. It is to be noted that the record of state 614 can include occurrences where no activity in excess of the threshold was observed which is indicated in this example with the designator N.R.

**Please replace paragraph 93 with the following paragraph:**

Following the recordation of state 614, the device 10 returns to the monitoring, calculations, and decisions of states 604-614 as previously described. It will be appreciated that in specific aspects of the invention, the recordation of state 614 can comprise only the greatest distance (equivalent distance) observed or all distances observed. If only the greatest is recorded, the determination can comprise the greatest of separate adjacent periods or a greatest determined period within a longer period of activity as previously described with reference to **Figs. 5 and 6**. It will be also appreciated that, in other embodiments, the recordation shown in **Fig. [[8c]] 9c** may be made on a weekly, monthly, or other periodic basis basis.